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Albanian Seismic Network (ASN)

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GENERAL BULLETIN INFORMATION

The location program currently used for locating earthquakes is Hypocenter (Lienert et al.,1986). Plane parallel layers are assumed for local and regional events, while the IASPEI travel time tables are used for distant events.

The model used for all local and regional events, is compiled by Havskov & Dushi (2021).

P-wave velocity (km/sec)	depth to top of layer (km)
5.6	0.0
6.0	11.0
6.35	23.5
7.80	41.0
8.20	70.0

Magnitudes are calculated from amplitudes.

Instrument corrected maximum ground amplitudes $A(nm)$ are used to assess the local magnitude M_l , based on the Richter formula (Hutton & Boore, 1987), corrected referred to EMSC:

$$M_l = 1.0 \cdot \log(A) + 1.11 \cdot \log(D) + 0.00189 \cdot D - 1.686$$

where, D is the hypocentral distance (km).

All available amplitude values are used for the magnitude assessment. No station corrections are used for either travel times or magnitude. The V_p/V_s velocity ratio, used in the layered velocity model above, is 1.81.

As a general policy, neither depths nor epicenters are fixed unless stated, since this might restrict later use of the data.

As a consequence, some event locations might be unrealistic, like zero depth earthquakes or teleseismic locations off by 1000 km.

However, the locations are based on the available data and reflect the location procedure and the models used.

STATIONS USED

The stations listed below are those operated by the Department of Seismology, Polytechnic University of Tirana (PUT). However, readings from other cooperating agencies are also used in locating the events and calculating magnitudes and thus more stations will appear in the event lists than in the station list.

STATION	LATITUDE	LONGITUDE	HEIGHT(m)	NAME
BCI	42.3666N	20.0675E	500	Bajram Curri
PUK	42.0426N	19.8926E	900	Puke
PHP	41.6847N	20.4408E	670	Peshkopi
SDA	42.0500N	19.5000E	30	Shkoder
TIR	41.3472N	19.8631E	247	Tirane
BERA	40.7100N	19.9500E	234	Berat
KBN	40.6200N	20.7900E	800	Korce
VLO	40.4700N	19.5000W	50	Vlore
SRN	39.8800N	20.0050W	20	Sarande
LSK	40.1499N	20.5987W	960	Leskovik
BPA1	40.7232N	19.6560E	10	Marinza Oilfield
BPA2	40.7302N	19.6187E	25	Marinza Oilfield

REGIONAL STATIONS

THE	40.6319N	22.9628E	132	Thessaloniki, Greece
NEST	40.4147N	21.0489E	1056	Nestorio, Greece
FNA	40.7817N	21.3836E	806	Florina, Greece
IGT	39.5315N	20.3299E	262	Igoumenitsa, Greece
LKD2	38.7889N	20.6578E	485	Lefkada, Greece
PDG	42.4297N	19.2608E	40	Podgorica, Montenegro

MACROSEISMIC DATA

Macroseismic data, if available, are included in the bulletin.

Abbreviations:

TIME: Origin time in UTC (hr. min. and sec.) or data file onset time if event is not located.

LAT: Latitude of epicenter

LON: Longitude of epicenter

DEPTH: Focal depth in kilometer (trailing F indicates fixed depth)

AGENCY: Hypocenter reporting agency e.g. TIR (ASN), EMS (EMSC),etc

MAGNITUDES: Up to 3 different magnitudes can be given followed by type and reporting agency, e.g. 3.1 MC TIR - coda magnitude calculated in TIR.

RMS: Root mean square value of travel time residuals

STAT: Station code

CO: Component, S:short period, L:long period, B:broadband,

DIST: Epicenter distance (km)

AZI: Azimuth from source to station

PHAS: Phase; The first letter characterizes onset E(mergent) or I(mpulsive)

P: Polarity (C for compression, D for dilatation)

HR: Hour

MN: Minute

SECON: Seconds

TRES: Residual (seconds)

CODA: Signal duration in seconds

AMPL: Ground Amplitude ($0.5 * (\text{peak to peak})$), (nm) at period PERI

PERI: Period where amplitude is measured

BAZ: Back azimuth (station to event)

ARES: Back azimuth residual

VELO: Apparent phase velocity (km/sec)

WT: Weight of phase in the location

*: An asterix before the phase arrival time implies a potential timing error. If an S phase is read, differential S-P times will be used in the hypocenter location.

References:

- Ottmoller, Voss and Haskov (2017). Seisan Earthquake Analysis Software for Windows, Solaris, Linux and MacOSx. <http://seisan.info>.
- Hutton, L. K. and Boore, David M. (1987). The Ml scale in Southern California. Bull. of Seimological Society of America, 77 (6). pp. 2074-2094. ISSN 0037-1106, <https://resolver.caltech.edu/CaltechAUTHORS:20140905-113510505>.
- Havskov, J., Kuka, N., Duni, Ll., Dushi, E., Bozo, Rr. (2020). The Albanian Seismic Network, plans and progress towards improving data acquisition and processing. Status January 2020. Cooperation between the Albanian Seismic Network and the Iniversity of Bergen. <ftp://ftp.geo.uib.no/pub/seismo/REPORTS/ALBANIA/albania-uib-report-2.pdf>.

August 2 2023 Hour: 20:44 25.7 Lat: 41.42N Lon: 20.51E D: 6.5 Ag: TIR Local
 Magnitudes: 3.1ML TIR 3.5MW TIR Rms: 0.7 secs
 25 km E of Bulqize

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PHP	HZ	30	348	EP		2044	1.839	0.71							1.0
PHP	HN	30	348	ES		2044	6.242	0.72							1.0
PHP	HZ	30	348	IAML		2044	8.494			3745	0.4				
AL03AHZ		47	295	EP		2044	3.708	-0.43							1.0
AL03AHN		47	295	ES		2044	0.094	-0.89							1.0
AL08AHZ		49	224	EP		2044	3.807	-0.78							1.0
AL07AHZ		60	166	EP		2044	6.411	-0.05							1.0
AL07AHN		60	166	ES		2044	5.425	0.24							1.0
LACI HZ		70	290	EP		2044	9.369	1.05							1.0
LACI HN		70	290	ES		2044	8.888	0.34							1.0
LACI HZ		70	290	IAML		2044	3.746			786	0.4				
KKS HZ		73	353	EP		2044	8.819	0.09							1.0
KKS HN		73	353	ES		2044	9.689	0.40							1.0
AL05AHZ		80	187	EP		2044	9.629	-0.48							1.0
AL05AHN		80	187	ES		2044	1.950	0.16							1.0
AL04AHZ		92	240	EP		2044	2.400	0.33							1.0
BERA HZ		93	211	EP		2044	1.417	-0.79							1.0
BERA HN		93	211	ES		2044	5.480	-0.10							1.0
BERA HZ		93	211	IAML		2045	5.635			165	0.9				
AL02AHZ		93	269	EP		2044	4.329	2.08							1.0
SDA HZ		109	310	EP		2044	4.786	-0.11							1.0
SDA HN		109	310	ES		2044	9.985	-0.47							1.0
SDA HZ		109	310	IAML		2045	1.369			104	0.2				
NEST HZ		121	158	EP		2044	5.934	-0.96							1.0
NEST HN		121	158	ES		2045	3.743	-0.33							1.0
NEST HZ		121	158	IAML		2045	7.871			189					
AL01AHZ		130	322	EP		2044	8.000	-0.43							1.0
AL01AHN		130	322	ES		2045	6.649	-0.20							1.0
TPE HZ		132	199	EP		2044	8.563	-0.18							1.0
TPE HN		132	199	ES		2045	7.358	-0.05							1.0
TPE HZ		132	199	IAML		2045	9.496			195	0.8				
PEJK HZ		137	352	EP		2044	8.689	-0.85							1.0
PVY HZ		138	341	EP		2044	9.640	-0.11							1.0
PDG HZ		153	318	EP		2044	1.479	-0.63							1.0
PDG HN		153	318	ES		2045	2.920	-0.59							1.0
PDG HZ		153	318	IAML		2045	8.234			266	0.9				
KZN HZ		163	139	EP		2044	3.743	-0.21							0.9
SRN HZ		177	194	EP		2044	7.157	1.00							0.9
SRN HN		177	194	ES		2045	1.074	0.24							0.9
SRN HZ		177	194	IAML		2045	8.544			91	0.4				
IGT HZ		211	184	EP		2045	1.124	0.60							0.9
IGT HN		211	184	ES		2045	9.541	0.80							0.9
IGT HZ		211	184	IAML		2045	7.013			55	0.8				

August 3 2023 Hour: 5:14 36.1 Lat: 40.79N Lon: 20.72E D: 9.6 Ag: TIR Local
 Magnitudes: 3.4ML TIR 3.5MW TIR Rms: 0.6 secs
 9 km N of Maliq

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AL07AHZ		13	344	EP		0514	9.534	0.46							1.0
AL07AHE		13	344	ES		0514	1.569	0.12							1.0
AL05AHZ		29	252	EP		0514	1.449	-0.21							1.0
AL05AHE		29	252	ES		0514	5.441	-0.69							1.0
NEST HZ		50	146	EP		0514	5.572	0.29							1.0
NEST HE		50	146	ES		0514	2.837	0.16							1.0
NEST HZ		50	146	IAML		0514	5.081			2419	0.3				
AL08AHZ		63	304	EP		0514	6.842	-0.56							1.0
AL08AHN		63	304	ES		0514	6.619	0.09							1.0
BERA HZ		66	262	EP		0514	6.596	-1.31							1.0
BERA HZ		66	262	IAML		0515	0.299			1114	0.4				

TPE	HZ	81	228	EP	0514	9.630-0.84								1.0
TPE	HN	81	228	ES	0515	1.846-0.23								1.0
TPE	HZ	81	228	IAML	0515	5.168	322	0.4						
BPA2	HZ	93	266	EP	0514	1.907-0.57								1.0
AL04AHZ		101	284	EP	0514	4.719 1.02								0.2
PHP	HZ	102	347	EP	0514	3.186-0.82								1.0
PHP	HZ	102	347	IAML	0515	1.450	232	0.6						
KZN	HZ	104	121	EP	0514	4.547 0.23								1.0
KZN	HN	104	121	ES	0515	8.583-0.46								1.0
AL03AHZ		108	327	EP	0514	4.934-0.09								1.0
VLO	HZ	110	251	EP	0514	5.635 0.44								1.0
VLO	HN	110	251	ES	0515	1.081 0.45								1.0
VLO	HZ	110	251	IAML	0515	1.009	374	0.4						
AL06AHZ		113	227	EP	0514	6.352 0.62								1.0
AL06AHN		113	227	ES	0515	1.440-0.17								1.0
SRN	HZ	118	211	EP	0514	7.031 0.42								1.0
SRN	HE	118	211	ES	0515	3.792 0.61								1.0
SRN	HZ	118	211	IAML	0515	6.778	164	0.7						
LACI	HZ	126	319	EP	0514	8.869 0.90								1.0
LACI	HE	126	319	ES	0515	5.867 0.21								1.0
LACI	HZ	126	319	IAML	0515	2.018	316	0.7						
KEK	HZ	143	214	EP	0515	1.390 0.62								1.0
KEK	HZ	143	214	IAML	0515	4.209	277	0.6						
IGT	HZ	143	193	EP	0515	1.350 0.49								1.0
IGT	HZ	143	193	IAML	0515	5.395	368	0.7						
SDA	HZ	173	324	EP	0515	5.716-0.05								0.9
SDA	HZ	173	324	IAML	0515	4.643	25	0.3						
THL	HZ	175	141	EP	0515	5.495-0.51								0.9
AL01AHZ		199	331	EP	0515	9.950 0.79								0.9
SCTE	HZ	207	248	EP	0515	0.059-0.05								0.9
PEJK	HZ	209	350	EP	0515	9.766-0.70								0.9
PVY	HZ	210	343	EP	0515	1.505 0.83								0.9
GMRK	HZ	212	11	EP	0515	2.301 1.47								0.0
PDG	HZ	219	327	EP	0515	1.555-0.09								0.9
PDG	HZ	219	327	IAML	0515	6.296	98	0.4						
LKD2	HZ	222	181	EP	0515	2.718 0.63								0.9
PLG	HZ	235	100	EP	0515	3.124-0.66								0.9
NKME	HZ	264	327	EP	0515	7.318-0.20								0.9
VLS	HZ	290	182	EP	0515	0.017-0.78								0.8
ME02AHZ		294	334	EP	0515	2.202 0.73								0.8

August 4 2023 Hour: 20:19 48.1 Lat: 40.14N Lon: 20.05E D: 11.5 Ag: TIR Local
Magnitudes: 3.4ML TIR 3.6MW TIR Rms: 0.5 secs

10 km NW of Gjirokaster

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TPE	HZ	18	349	EP		2019	1.364-0.48								1.0
TPE	HE	18	349	ES		2019	4.087-0.79								1.0
TPE	HZ	18	349	IAML		2019	4.762		24543	0.2					
AL06AHZ		26	257	EP		2019	2.900-0.22								1.0
AL06AHN		26	257	ES		2019	6.805-0.40								1.0
SRN	HZ	29	189	EP		2019	3.743 0.07								1.0
SRN	HN	29	189	ES		2019	8.561 0.37								1.0
SRN	HZ	29	189	IAML		2019	9.868		2560	0.4					
KEK	HZ	52	205	EP		2019	7.143-0.36								1.0
KEK	HN	52	205	ES		2020	5.011-0.12								1.0
KEK	HZ	52	205	IAML		2020	1.483		1189	0.4					
VLO	HZ	60	308	EP		2019	9.528 0.75								1.0
VLO	HN	60	308	ES		2020	7.525 0.10								1.0
VLO	HZ	60	308	IAML		2020	3.306		1470	0.5					
BERA	HZ	63	352	EP		2019	8.673-0.65								1.0
BERA	HN	63	352	ES		2020	8.418-0.00								1.0
BERA	HZ	63	352	IAML		2020	6.380		1256	0.3					
AL05AHZ		69	24	EP		2019	9.885-0.46								1.0
AL05AHE		69	24	ES		2020	9.839-0.43								1.0

IGT	HZ	72	160	EP	2020	0.767	0.03							1.0
IGT	HE	72	160	ES	2020	1.694	0.71							1.0
IGT	HZ	72	160	IAML	2020	8.725		815	0.4					
BPA2	HZ	75	331	EP	2020	2.068	0.74							1.0
NEST	HZ	90	70	EP	2020	3.462	-0.40							1.0
NEST	HN	90	70	ES	2020	6.630	-0.02							1.0
NEST	HZ	90	70	IAML	2020	5.421		521	0.7					
AL07AHZ		100	32	EP	2020	5.575	0.12							1.0
AL07AHE		100	32	ES	2020	9.310	-0.21							1.0
AL04AHZ		105	337	EP	2020	7.878	1.59							0.5
AL08AHZ		107	2	EP	2020	6.800	0.11							1.0
AL08AHN		107	2	ES	2020	2.010	0.25							1.0
TIR	HZ	135	353	EP	2020	1.165	-0.16							1.0
TIR	HZ	135	353	IAML	2020	0.936		179	0.6					
SCTE	HZ	135	267	EP	2020	1.716	0.34							1.0
SCTE	HN	135	267	ES	2020	9.581	-0.65							1.0
TIR	HN	135	353	ES	2020	1.246	1.11							1.0
KZN	HZ	147	82	EP	2020	3.712	0.30							1.0
KZN	HN	147	82	ES	2020	3.841	-0.09							1.0
AL02AHZ		151	339	EP	2020	6.533	2.50							0.0
AL02AHE		151	339	ES	2020	5.875	0.83							1.0
LKD2	HZ	159	161	EP	2020	5.696	0.41							0.9
LKD2	HE	159	161	ES	2020	7.067	-0.24							0.9
AL03AHZ		162	359	EP	2020	5.611	-0.27							0.9
AL03AHE		162	359	ES	2020	8.204	-0.20							0.9
LACI	HZ	169	350	EP	2020	8.823	1.93							0.0
LACI	HN	169	350	ES	2020	0.108	-0.12							0.9
LACI	HZ	169	350	IAML	2020	7.749		172	0.6					
PHP	HZ	175	11	EP	2020	7.985	0.24							0.9
PHP	HN	175	11	ES	2020	2.261	0.50							0.9
PHP	HZ	175	11	IAML	2020	6.499		254	0.6					
KKS	HZ	217	8	EP	2020	4.403	1.30							0.9
SDA	HZ	217	348	EP	2020	3.129	0.01							0.9
SDA	HZ	217	348	IAML	2020	3.810		16	0.4					
KKS	HN	217	8	ES	2020	1.535	0.07							0.9
VLS	HZ	223	168	EP	2020	3.000	-0.87							0.9
AL01AHZ		249	350	EP	2020	6.782	-0.52							0.9
THE	HZ	253	77	EP	2020	7.918	0.17							0.9
THE	HZ	253	77	IAML	2020	8.690		38	0.9					
PDG	HZ	263	346	EP	2020	8.367	-0.61							0.9
PDG	HZ	263	346	IAML	2021	3.653		71	0.7					
PVY	HZ	273	358	EP	2020	1.102	0.70							0.8
PVY	HE	273	358	ES	2021	3.534	-1.14							0.8
PEJK	HZ	279	4	EP	2020	1.775	0.68							0.8
PEJK	HN	279	4	ES	2021	5.353	-0.58							0.8
PLG	HZ	290	84	EP	2020	2.694	0.22							0.8
GMRK	HZ	296	19	EP	2020	3.681	0.29							0.8
ME01AHZ		301	357	EP	2020	4.510	0.57							0.8
NKME	HZ	306	343	EP	2020	3.758	-0.82							0.8
MRVN	HZ	342	289	EP	2020	7.183	-2.02							0.0
ME02AHZ		344	347	EP	2020	9.286	-0.26							0.8
NVR	HZ	349	66	EP	2020	0.341	0.28							0.8
ITM	HZ	367	153	EP	2020	1.929	-0.42							0.8
SGRT	HZ	405	298	EP	2020	5.058	-2.22							0.0
RDO	HZ	477	75	EP	2020	5.632	-0.80							0.7

August 6 2023 Hour: 1:18 5.0 Lat: 39.43N Lon: 19.98E D: 3.4 Ag: TIR Local
Magnitudes: 2.9ML TIR 3.4MW TIR Rms: 0.5 secs
30 km SW of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HN	32	69	ES		0118	5.440	-0.05							1.0
KEK	HZ	35	333	EP		0118	1.163	-0.18							1.0
KEK	HE	35	333	ES		0118	6.641	0.16							1.0
KEK	HZ	35	333	IAML		0118	9.174		758	0.4					

SRN	HZ	50	2	EP	0118	3.464	-0.51										1.0
SRN	HN	50	2	ES	0118	1.324	0.08										1.0
SRN	HZ	50	2	IAML	0118	2.951		408	0.6								
AL06AHZ		76	345	EP	0118	7.934	-0.62										1.0
AL06AHN		76	345	ES	0118	9.494	-0.03										1.0
LKD2	HZ	92	140	EP	0118	2.268	0.84										1.0
LKD2	HE	92	140	ES	0118	4.679	-0.06										1.0
TPE	HZ	96	2	EP	0118	2.283	0.09										1.0
TPE	HE	96	2	ES	0118	6.013	-0.11										1.0
TPE	HZ	96	2	IAML	0118	7.134		81	0.4								
VLO	HZ	123	340	EP	0118	8.086	1.43										0.2
VLO	HN	123	340	ES	0118	3.923	-0.28										1.0
VLO	HZ	123	340	IAML	0118	3.105		118	0.3								
BERA	HE	142	359	ES	0118	0.124	0.27										1.0
NEST	HZ	142	39	EP	0118	9.988	-0.02										1.0
NEST	HZ	142	39	IAML	0119	4.455		104	0.7								
BERA	HZ	142	359	EP	0118	9.555	-0.23										1.0
BERA	HZ	142	359	IAML	0118	7.079		121	0.4								
NEST	HE	142	39	ES	0118	0.130	-0.13										1.0
AL05AHZ		146	14	EP	0118	1.106	0.54										1.0
AL05AHE		146	14	ES	0118	1.630	0.36										1.0
SCTE	HZ	148	299	EP	0118	0.103	-0.80										1.0
VLS	HZ	149	159	EP	0118	1.391	0.41										1.0
VLS	HE	149	159	ES	0118	1.984	-0.04										1.0
AL07AHZ		174	20	EP	0118	6.127	0.92										0.9
AL07AHE		174	20	ES	0119	0.587	0.91										0.9
AL04AHZ		179	349	EP	0118	5.796	-0.22										0.9
AL04AHE		179	349	ES	0119	1.962	0.82										0.9
KZN	HZ	181	57	EP	0118	6.716	0.23										0.9
KZN	HN	181	57	ES	0119	1.124	-0.87										0.9
AL08AHZ		186	3	EP	0118	7.983	0.87										0.9
AL08AHE		186	3	ES	0119	3.172	0.06										0.9
TIR	HZ	213	357	EP	0118	0.366	-0.19										0.9
TIR	HE	213	357	ES	0119	8.480	-0.87										0.9
TIR	HZ	213	357	IAML	0119	3.926		21	1.0								
AL03AHZ		241	0	EP	0118	4.086	-0.08										0.9
LACI	HZ	246	355	EP	0118	5.417	0.66										0.9
LACI	HZ	246	355	IAML	0119	2.569		27	0.8								
PHP	HZ	254	9	EP	0118	5.138	-0.63										0.9
PHP	HZ	254	9	IAML	0119	2.750		26	1.4								
KKS	HZ	296	7	EP	0118	0.751	-0.40										0.8
ITM	HZ	302	145	EP	0118	1.951	0.00										0.8
PLG	HZ	314	69	EP	0118	2.430	-1.08										0.8
PDG	HZ	339	350	EP	0118	3.596	-3.02										0.0
PDG	HZ	339	350	IAML	0119	3.223		14	0.9								
PVY	HZ	352	360	EP	0118	8.991	0.57										0.8
PEJK	HZ	358	4	EP	0118	7.863	-1.29										0.2
MRVN	HZ	370	301	EP	0118	8.205	-2.44										0.0
NKME	HZ	381	347	EP	0118	8.442	-3.63										0.0
ME02AHZ		420	350	EP	0119	4.680	-2.56										0.0
IGT	HZ	32	69	EP	0118	0.249	-0.55										1.0
IGT	HZ	32	69	IAML	0118	9.075		771	0.3								

August 6 2023 Hour: 13:14 55.1 Lat: 38.70N Lon: 20.56E D: 8.7 Ag: TIR Local
Magnitudes: 2.8ML TIR 3.0MW TIR Rms: 0.5 secs
111 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	13	40	EP		1314	7.839	-0.08							1.0
LKD2	HN	13	40	ES		1314	9.856	-0.34							1.0
VLS	HZ	58	178	EP		1315	5.767	0.16							1.0
VLS	HN	58	178	ES		1315	3.974	-0.15							1.0
IGT	HZ	95	348	EP		1315	1.520	-0.20							1.0
IGT	HN	95	348	ES		1315	5.171	-0.01							1.0
IGT	HZ	95	348	IAML		1315	9.065			98	0.4				

KEK	HZ	130	330	EP	1315	7.847	0.15										1.0
KEK	HE	130	330	ES	1315	6.463	0.47										1.0
KEK	HZ	130	330	IAML	1315	0.623		83	1.0								
SRN	HZ	140	340	EP	1315	9.442	0.22										1.0
SRN	HE	140	340	ES	1315	9.389	0.62										1.0
SRN	HZ	140	340	IAML	1315	0.272		31	0.7								
THL	HZ	158	52	EP	1315	1.966	-0.33										0.9
THL	HN	158	52	ES	1315	4.655	0.33										0.9
AL06AHZ	169	336	EP	1315	4.224	0.09											0.9
AL06AHN	169	336	ES	1315	7.535	-0.11											0.9
TPE	HZ	183	345	EP	1315	6.282	0.15										0.9
TPE	HN	183	345	ES	1315	9.921	-1.35										0.9
TPE	HZ	183	345	IAML	1316	3.027		50	0.6								
KZN	HZ	206	30	EP	1315	9.482	0.28										0.9
KZN	HE	206	30	ES	1315	6.708	-0.11										0.9
ITM	HZ	207	144	EP	1315	9.553	0.33										0.9
ITM	HN	207	144	ES	1315	6.942	0.08										0.9
VLO	HZ	217	335	IP	4A	1315	5.410	-25.0									0.0
AL05AHZ	223	356	EP	1315	1.682	0.39											0.9
BERA	HZ	228	347	EP	1315	2.558	0.64										0.9
BERA	HZ	228	347	IAML	1316	0.165		29	0.4								
SCTE	HZ	236	311	EP	1315	1.431	-1.48										0.9
PLG	HZ	310	52	EP	1315	2.314	-0.08										0.8
PHP	HZ	332	358	EP	1315	4.510	-0.70										0.8
PHP	HZ	332	358	IAML	1316	8.985		11	1.4								
LACI	HZ	334	348	EP	1315	6.453	1.02										0.8
LACI	HZ	334	348	IAML	1316	9.162		19	1.6								

August 12 2023 Hour: 20: 4 52.3 Lat: 41.19N Lon: 19.85E D: 22.8 Ag: TIR Local
Magnitudes: 2.9ML TIR 3.1MW TIR Rms: 0.4 secs
15 km S of Tirane

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TIR	HZ	18	4	EP		2004	6.957	-0.36							1.0
TIR	HN	18	4	ES		2005	1.242	-0.10							1.0
TIR	HZ	18	4	IAML		2005	3.269		898	0.4					
AL08AHZ	23	114	EP	2004	7.630	-0.33									1.0
AL08AHE	23	114	ES	2005	2.491	-0.03									1.0
AL04AHZ	32	230	EP	2004	9.560	0.48									1.0
AL04AHN	32	230	ES	2005	4.472	-0.08									1.0
AL02AHZ	45	303	EP	2005	1.740	0.70									1.0
AL02AHE	45	303	ES	2005	7.940	-0.14									1.0
AL03AHZ	47	16	EP	2005	1.075	-0.34									1.0
AL03AHN	47	16	ES	2005	8.960	0.19									1.0
LACI	HZ	51	347	EP	2005	2.967	1.06								1.0
LACI	HN	51	347	ES	2005	9.597	-0.07								1.0
LACI	HZ	51	347	IAML	2005	1.259		300	0.4						
BERA	HZ	55	171	EP	2005	1.665	-0.89								1.0
BERA	HZ	55	171	IAML	2005	0.965		472	0.3						
AL05AHZ	71	140	EP	2005	4.663	-0.43									1.0
AL05AHN	71	140	ES	2005	5.974	0.55									1.0
PHP	HZ	74	42	EP	2005	4.729	-0.89								1.0
PHP	HE	74	42	ES	2005	6.457	0.08								1.0
PHP	HZ	74	42	IAML	2005	7.142		209	0.3						
SDA	HZ	100	343	EP	2005	0.083	0.37								1.0
SDA	HN	100	343	ES	2005	3.409	-0.37								1.0
SDA	HZ	100	343	IAML	2005	6.243		19	0.3						
TPE	HZ	100	172	EP	2005	0.232	0.40								1.0
TPE	HN	100	172	ES	2005	4.143	0.14								1.0
TPE	HZ	100	172	IAML	2005	9.110		163	0.4						
KKS	HZ	108	25	EP	2005	1.059	-0.00								1.0
KKS	HN	108	25	ES	2005	6.647	0.42								1.0
AL06AHZ	123	184	EP	2005	4.064	0.75									1.0
AL01AHZ	131	349	EP	2005	3.870	-0.82									1.0
AL01AHN	131	349	ES	2005	2.573	-0.21									1.0

NEST HZ	133	130	EP	2005	5.025	0.03											1.0
NEST HN	133	130	ES	2005	3.611	0.27											1.0
NEST HZ	133	130	IAML	2005	6.654				170	0.4							
PRZK HZ	136	33	EP	2005	5.434	-0.05											1.0
PRZK HN	136	33	ES	2005	4.771	0.54											1.0
SRN HZ	146	175	EP	2005	6.815	-0.18											1.0
SRN HZ	146	175	IAML	2005	0.479				73	0.5							
PDG HZ	146	341	EP	2005	6.783	-0.22											1.0
PDG HZ	146	341	IAML	2005	7.791				169	0.5							
SRN HN	146	175	ES	2005	7.143	0.17											1.0
PVY HZ	156	3	EP	2005	8.682	0.18											1.0
PVY HN	156	3	ES	2005	9.569	-0.13											1.0
KEK HZ	164	182	EP	2005	9.308	-0.09											0.9
KEK HN	164	182	ES	2005	0.687	-0.63											0.9
KEK HZ	164	182	IAML	2005	3.152				175	0.6							
PEJK HZ	165	12	EP	2005	9.862	0.27											0.9
ME01AHZ	184	1	EP	2005	2.874	0.89											0.9
ME01AHE	184	1	ES	2005	6.152	0.16											0.9
IGT HZ	189	167	EP	2005	2.545	0.01											0.9
IGT HZ	189	167	IAML	2005	2.105				41	0.2							
NKME HZ	190	337	EP	2005	2.599	-0.20											0.9
ME02AHZ	226	345	EP	2005	7.885	0.35											0.9
ME02AHN	226	345	ES	2005	5.391	-0.66											0.9
THL HZ	258	134	EP	2005	1.321	-0.03											0.9
THE HZ	270	102	EP	2005	2.795	-0.09											0.9
THE HZ	270	102	IAML	2006	4.147				19	0.7							
LKD2 HZ	275	165	EP	2005	2.660	-1.03											0.4
MRVN HZ	307	269	EP	2005	4.852	-2.94											0.0
PLG HZ	317	105	EP	2005	8.551	-0.42											0.8
NVR HZ	337	86	EP	2005	1.205	-0.37											0.8

August 17 2023 Hour: 15:29 41.5 Lat: 41.36N Lon: 20.35E D: 15.5 Ag: TIR Local
Magnitudes: 2.8ML TIR 3.1MW TIR Rms: 0.4 secs
18 km SE of Bulqize

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AL08AHZ		35	216	EP		1529	8.082	-0.21							1.0
AL08AHE		35	216	ES		1529	3.729	-0.03							1.0
PHP HZ		37	12	EP		1529	8.708	0.19							1.0
PHP HE		37	12	ES		1529	4.645	0.47							1.0
PHP HZ		37	12	IAML		1529	6.136			418	0.2				
AL03AHZ		39	313	EP		1529	9.044	0.14							1.0
AL03AHE		39	313	ES		1529	5.228	0.35							1.0
TIR HZ		41	268	EP		1529	8.891	-0.22							1.0
TIR HN		41	268	ES		1529	4.962	-0.29							1.0
TIR HZ		41	268	IAML		1529	5.810			426	0.2				
AL07AHZ		59	152	EP		1529	2.094	0.00							1.0
AL07AHN		59	152	ES		1530	1.662	1.02							1.0
LACI HZ		61	300	EP		1529	4.272	1.85							0.2
LACI HN		61	300	ES		1530	1.390	0.14							1.0
LACI HZ		61	300	IAML		1530	7.494			539	0.6				
AL05AHZ		73	177	EP		1529	4.384	-0.12							1.0
AL05AHE		73	177	ES		1530	5.331	0.32							1.0
AL04AHZ		77	239	EP		1529	7.352	2.25							0.0
KKS HZ		79	3	EP		1529	5.130	-0.33							1.0
KKS HE		79	3	ES		1530	6.783	0.04							1.0
AL02AHZ		80	274	EP		1529	6.052	0.48							1.0
BERA HZ		81	205	EP		1529	5.703	-0.02							1.0
BERA HN		81	205	ES		1530	7.059	-0.15							1.0
BERA HZ		81	205	IAML		1530	2.060			152	0.2				
SDA HZ		104	317	EP		1529	9.118	-0.47							1.0
SDA HE		104	317	ES		1530	3.918	-0.30							1.0
SDA HZ		104	317	IAML		1530	5.760			64	0.3				
NEST HZ		121	150	EP		1530	2.092	-0.36							1.0
NEST HE		121	150	ES		1530	8.530	-0.86							1.0

NEST HZ	121	150	IAML	1530	2.060		225	0.7	
TPE HZ	122	193	EP	1530	2.729	0.13			1.0
TPE HE	122	193	ES	1530	9.897	0.24			1.0
TPE HZ	122	193	IAML	1530	8.364		111	0.6	
AL01AHZ	128	329	EP	1530	2.797	-0.84			1.0
AL01AHN	128	329	ES	1530	1.159	-0.38			1.0
PVY HZ	141	347	EP	1530	6.078	0.32			1.0
PEJK HZ	142	358	EP	1530	6.043	0.03			1.0
PEJK HN	142	358	ES	1530	5.681	-0.16			1.0
PDG HZ	149	323	EP	1530	6.382	-0.65			1.0
PDG HE	149	323	ES	1530	7.852	0.16			1.0
PDG HZ	149	323	IAML	1530	1.745		181	0.7	
AL06AHZ	150	200	EP	1530	8.110	0.89			1.0
AL06AHN	150	200	ES	1530	7.821	-0.20			1.0
GMRK HZ	161	26	EP	1530	8.921	-0.10			0.9
SRN HZ	167	190	EP	1530	0.364	0.63			0.9
SRN HN	167	190	ES	1530	2.416	-0.16			0.9
SRN HZ	167	190	IAML	1530	7.573		39	0.3	
ME01AHZ	169	347	EP	1530	0.942	0.88			0.9
KEK HZ	189	194	EP	1530	2.339	-0.21			0.9
KEK HE	189	194	ES	1530	7.669	-0.01			0.9
KEK HZ	189	194	IAML	1530	4.097		64	0.6	
NKME HZ	194	324	EP	1530	3.672	0.43			0.9
NKME HE	194	324	ES	1530	9.354	0.42			0.9
IGT HZ	203	180	EP	1530	4.371	-0.01			0.9
IGT HZ	203	180	IAML	1530	6.958		23	0.4	
SCTE HZ	214	229	EP	1530	4.188	-1.55			0.0
ME02AHZ	223	333	EP	1530	8.753	1.65			0.0
THL HZ	245	144	EP	1530	9.468	-0.18			0.9
PLG HZ	283	112	EP	1530	3.992	-0.67			0.8
LKD2 HZ	287	175	EP	1530	4.351	-0.79			0.8
MRVN HZ	350	266	EP	1530	0.578	-2.63			0.0
VLS HZ	354	177	EP	1530	1.230	-2.52			0.0

August 18 2023 Hour: 12:59 10.4 Lat: 42.68N Lon: 20.29E D: 11.1 Ag: TIR Local
Magnitudes: 2.7ML TIR 2.7MW TIR Rms: 0.4 secs

39 km NE of Bajram Curri

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PEJK HZ		4	192	EP		1259	2.776	0.18							1.0
PEJK HE		4	192	ES		1259	4.059	-0.35							1.0
PVY HZ		29	252	EP		1259	6.460	0.56							1.0
PVY HN		29	252	ES		1259	0.164	-0.23							1.0
ME01AHZ		38	300	EP		1259	8.100	0.60							1.0
ME01AHN		38	300	ES		1259	3.144	-0.14							1.0
KKS HZ		68	172	EP		1259	2.567	0.22							1.0
KKS HE		68	172	ES		1259	2.086	0.03							1.0
AL01AHZ		71	239	EP		1259	2.862	-0.09							1.0
AL01AHN		71	239	ES		1259	2.756	-0.40							1.0
GMRK HZ		76	91	EP		1259	3.630	-0.23							1.0
GMRK HE		76	91	ES		1259	4.528	-0.27							1.0
PDG HZ		89	252	EP		1259	5.809	-0.03							1.0
PDG HE		89	252	ES		1259	8.128	-0.25							1.0
PDG HZ		89	252	IAML		1259	0.564			200	0.2				
SDA HZ		95	223	EP		1259	7.172	0.26							1.0
SDA HE		95	223	ES		1259	0.099	-0.22							1.0
SDA HZ		95	223	IAML		1259	5.236			29	0.3				
ME03AHZ		107	315	EP		1259	8.686	-0.20							1.0
ME03AHN		107	315	ES		1259	3.866	-0.03							1.0
ME02AHZ		109	300	EP		1259	9.464	0.12							1.0
ME02AHN		109	300	ES		1259	4.647	-0.08							1.0
NKME HZ		110	276	EP		1259	9.358	-0.05							1.0
PHP HZ		111	173	EP		1259	9.206	-0.36							1.0
PHP HN		111	173	ES		1259	5.184	0.06							1.0
PHP HZ		111	173	IAML		1259	8.841			84	0.3				

AL03AHZ	122	191	EP	1259	1.164	-0.18										1.0
LACI HZ	125	202	EP	1259	2.334	0.50										1.0
LACI HZ	125	202	IAML	1259	8.986				71	0.5						
ME05AHZ	148	261	EP	1259	6.069	0.33										1.0
AL05AHZ	219	178	EP	1259	7.741	2.02										0.2
NEST HZ	259	166	EP	1259	1.426	0.51										0.9
NEST HZ	259	166	IAML	1300	0.103				17	0.9						
BZS HZ	344	18	EP	1259	9.558	-2.22										0.2
THL HZ	375	157	EP	1300	5.422	-0.20										0.8

August 20 2023 Hour: 19:56 55.0 Lat: 41.08N Lon: 20.04E D: 17.0 Ag: TIR Local
Magnitudes: 2.6ML TIR 3.1MW TIR Rms: 0.7 secs
4 km SW of Elbasan

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AL08AHZ		6	63	EP		1956	8.063	-0.12							1.0
AL08AHN		6	63	ES		1957	0.724	-0.02							1.0
TIR HZ		33	333	EP		1957	1.178	-0.33							1.0
TIR HN		33	333	ES		1957	6.925	0.16							1.0
TIR HZ		33	333	IAML		1957	9.278			147	0.1				
AL04AHZ		41	259	EP		1957	2.985	0.18							1.0
BERA HZ		43	191	EP		1957	1.776	-1.27							1.0
BERA HN		43	191	ES		1957	8.777	-0.77							1.0
AL05AHZ		51	145	EP		1957	3.856	-0.54							1.0
AL05AHN		51	145	ES		1957	2.472	0.47							1.0
BPA2 HZ		53	223	EP		1957	3.313	-1.36							1.0
AL03AHZ		58	357	EP		1957	5.061	-0.41							1.0
AL03AHN		58	357	ES		1957	3.865	-0.08							1.0
AL02AHZ		65	304	EP		1957	7.369	0.69							1.0
LACI HZ		67	336	EP		1957	8.543	1.52							1.0
LACI HN		67	336	ES		1957	8.081	1.33							1.0
LACI HZ		67	336	IAML		1957	1.196			179	0.4				
PHP HZ		75	26	EP		1957	7.673	-0.61							1.0
PHP HN		75	26	ES		1957	8.829	-0.20							1.0
PHP HZ		75	26	IAML		1957	3.224			100	0.5				
VLO HZ		82	214	EP		1957	9.269	-0.24							1.0
VLO HN		82	214	ES		1957	1.246	-0.01							1.0
VLO HZ		82	214	IAML		1957	6.579			183	0.2				
TPE HZ		88	182	EP		1957	9.472	-0.90							1.0
TPE HN		88	182	ES		1957	3.766	0.96							1.0
TPE HZ		88	182	IAML		1957	9.020			105	0.5				
NEST HZ		113	131	EP		1957	4.482	-0.13							1.0
NEST HN		113	131	ES		1957	1.712	1.23							1.0
AL06AHZ		113	192	EP		1957	5.644	1.05							1.0
NEST HZ		113	131	IAML		1957	7.407			58	0.5				
KKS HZ		114	15	EP		1957	4.055	-0.73							1.0
KKS HN		114	15	ES		1957	9.916	-0.88							1.0
SDA HZ		117	337	EP		1957	4.762	-0.44							1.0
SDA HN		117	337	ES		1957	2.590	1.04							1.0
SDA HZ		117	337	IAML		1957	6.621			11	0.4				
SRN HZ		134	182	EP		1957	8.407	0.40							1.0
SRN HN		134	182	ES		1957	7.542	0.91							1.0
SRN HZ		134	182	IAML		1957	2.123			40	0.3				
KEK HZ		153	188	EP		1957	1.022	-0.15							1.0
KEK HN		153	188	ES		1957	1.717	-0.63							1.0
KEK HZ		153	188	IAML		1957	5.142			57	0.5				
PDG HZ		163	337	EP		1957	2.593	0.06							0.9
PDG HN		163	337	ES		1957	4.303	-0.52							0.9
PDG HZ		163	337	IAML		1957	5.280			92	0.5				
PVY HZ		168	358	EP		1957	3.113	-0.21							0.9
KZN HZ		169	120	EP		1957	4.043	0.60							0.9

August 23 2023 Hour: 10:50 44.3 Lat: 40.50N Lon: 19.93E D: 3.8 Ag: TIR Local
 Magnitudes: 2.5ML TIR 2.9MW TIR Rms: 0.6 secs
 17 km N of Memaliaj

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
BERA	HZ	22	5	EP		1050	7.382	-0.93							1.0
BERA	HN	22	5	ES		1050	0.423	-1.15							1.0
BERA	HZ	22	5	IAML		1050	0.952		1664	0.3					
TPE	HZ	24	162	EP		1050	8.702	-0.00							1.0
TPE	HN	24	162	ES		1050	2.624	0.35							1.0
VLO	HZ	37	264	EP		1050	0.817	-0.07							1.0
VLO	HN	37	264	ES		1050	6.916	0.68							1.0
VLO	HZ	37	264	IAML		1050	8.426		722	0.2					
AL05AHZ		45	60	EP		1050	1.713	-0.70							1.0
AL05AHN		45	60	ES		1050	8.977	-0.02							1.0
AL06AHZ		48	197	EP		1050	2.192	-0.74							1.0
AL06AHN		48	197	ES		1051	0.337	0.41							1.0
AL08AHZ		68	12	EP		1050	6.552	0.02							1.0
AL08AHN		68	12	ES		1051	6.781	0.34							1.0
SRN	HZ	70	175	EP		1050	6.714	-0.01							1.0
SRN	HN	70	175	ES		1051	7.060	0.27							1.0
SRN	HZ	70	175	IAML		1051	3.275		97	0.3					
KEK	HZ	88	187	EP		1051	0.540	0.44							1.0
KEK	HN	88	187	ES		1051	3.367	0.46							1.0
KEK	HZ	88	187	IAML		1051	6.940		68	0.3					
TIR	HZ	94	357	EP		1051	0.771	-0.30							1.0
TIR	HN	94	357	ES		1051	5.315	0.65							1.0
TIR	HZ	94	357	IAML		1051	3.918		18	0.5					
AL02AHZ		110	336	EP		1051	4.416	0.63							1.0
AL03AHZ		122	3	EP		1051	5.588	-0.25							1.0
AL03AHN		122	3	ES		1051	3.738	0.45							1.0
LACI	HZ	127	352	EP		1051	7.538	0.90							1.0
LACI	HN	127	352	ES		1051	5.484	0.74							1.0
LACI	HZ	127	352	IAML	A	1051	8.864		39	0.4					
SCTE	HZ	133	249	EP		1051	7.279	-0.35							1.0
SCTE	HN	133	249	ES		1051	4.964	-1.57							1.0
PHP	HZ	138	18	EP		1051	8.537	0.02							1.0
PHP	HN	138	18	ES		1051	8.210	0.07							1.0
PHP	HZ	138	18	IAML		1051	5.452		16	0.3					
THL	HZ	206	120	EP		1051	8.670	-0.22							0.9
THL	HN	206	120	ES		1051	6.718	-0.20							0.9

August 23 2023 Hour: 15:12 16.2 Lat: 39.22N Lon: 20.26E D: 10.0F Ag: TIR Local
 Magnitudes: 2.7ML TIR 3.1MW TIR Rms: 0.6 secs
 49 km S of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	59	144	EP		1512	6.548	-0.30							1.0
LKD2	HN	59	144	ES		1512	5.359	-0.12							1.0
KEK	HZ	67	324	EP		1512	7.704	-0.52							1.0
KEK	HN	67	324	ES		1512	7.912	-0.05							1.0
KEK	HZ	67	324	IAML		1512	9.670		242	0.2					
SRN	HZ	76	343	EP		1512	8.741	-0.96							1.0
SRN	HN	76	343	ES		1512	0.283	-0.37							1.0
SRN	HZ	76	343	IAML	A	1512	4.445		69	0.5					
AL06AHZ		105	336	EP		1512	4.184	-0.37							1.0
VLS	HZ	119	166	EP		1512	6.086	-0.80							1.0
VLS	HE	119	166	ES		1512	4.996	1.35							1.0
TPE	HZ	121	350	EP		1512	7.380	0.23							1.0
TPE	HN	121	350	ES		1512	4.415	0.29							1.0
THL	HZ	156	75	EP		1512	2.093	-0.88							1.0
THL	HN	156	75	ES		1513	4.539	-0.13							1.0
AL05AHZ		165	4	EP		1512	4.640	0.11							0.9
AL05AHE		165	4	ES		1513	7.726	0.24							0.9
AL05AHZ		165	4	IAML	A	1513	2.167								

BERA	HZ	167	351	EP	1512	5.104	0.36									0.9
BERA	HN	167	351	ES	1513	8.036	0.17									0.9
BERA	HZ	167	351	IAML A	1513	8.362		57	0.6							
KZN	HZ	177	47	EP	1512	6.713	0.36									0.9
KZN	HN	177	47	ES	1513	0.596	-0.19									0.9
PHP	HZ	274	3	EP	1512	9.503	0.74									0.8
PHP	HN	274	3	ES	1513	4.802	1.55									0.8
PHP	HZ	274	3	IAML A	1513	7.283		11	1.1							

August 24 2023 Hour: 2: 8 31.5 Lat: 39.63N Lon: 20.40E D: 3.1 Ag: TIR Local
Magnitudes: 2.9ML TIR 3.3MW TIR Rms: 0.5 secs
19 km E of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
SRN	HZ	44	309	EP		0208	9.602	0.17							1.0
SRN	HN	44	309	ES		0208	6.117	0.26							1.0
SRN	HZ	44	309	IAML		0208	6.690			579	0.4				
KEK	HZ	53	280	EP		0208	1.143	0.21							1.0
KEK	HN	53	280	ES		0208	8.790	0.21							1.0
KEK	HZ	53	280	IAML		0208	2.972			1044	0.6				
AL06AHZ		75	313	EP		0208	4.606	-0.32							1.0
AL06AHE		75	313	ES		0208	5.184	-0.62							1.0
TPE	HZ	81	336	EP		0208	5.773	-0.18							1.0
TPE	HE	81	336	ES		0208	7.747	0.09							1.0
TPE	HZ	81	336	IAML		0208	9.580			278	0.4				
LKD2	HZ	96	167	EP		0208	8.826	0.18							1.0
LKD2	HE	96	167	ES		0209	2.814	0.28							1.0
AL05AHZ		119	359	EP		0208	1.746	-0.89							1.0
AL05AHE		119	359	ES		0209	9.921	0.17							1.0
AL05AHZ		119	359	IAML		0209	2.914			0.10	0.5				
VLO	HZ	121	320	EP		0208	3.912	1.01							1.0
VLO	HN	121	320	ES		0209	0.397	0.16							1.0
VLO	HZ	121	320	IAML		0209	6.278			144	0.4				
BERA	HZ	125	342	EP		0208	3.706	0.13							1.0
BERA	HE	125	342	ES		0209	1.755	0.29							1.0
BERA	HZ	125	342	IAML		0209	5.090			231	0.3				
THL	HZ	138	93	EP		0208	6.074	0.28							1.0
THL	HN	138	93	ES		0209	5.738	0.26							1.0
BPA2	HN	139	332	ES		0209	5.940	0.25							1.0
KZN	HZ	139	57	EP		0208	5.395	-0.50							1.0
BPA2	HZ	139	332	EP		0208	5.939	0.03							1.0
VLS	HZ	162	174	EP		0208	9.521	-0.23							0.9
VLS	HE	162	174	ES		0209	2.648	0.01							0.9
AL08AHZ		166	351	EP		0209	0.583	0.24							0.9
AL08AHN		166	351	ES		0209	3.876	0.17							0.9
SCTE	HZ	173	287	EP		0208	9.814	-1.71							0.9
TIR	HZ	196	347	EP		0209	4.521	-0.35							0.9
TIR	HN	196	347	ES		0209	2.060	0.15							0.9
TIR	HZ	196	347	IAML		0209	4.825			31	0.8				
AL02AHZ		215	337	EP		0209	8.220	0.93							0.9
AL02AHN		215	337	ES		0209	6.167	-0.11							0.9
PHP	HZ	228	1	EP		0209	8.696	-0.34							0.9
PHP	HZ	228	1	IAML		0209	7.262			37	0.7				
LACI	HZ	230	346	EP		0209	9.971	0.74							0.9
LACI	HN	230	346	ES		0209	9.333	-0.46							0.9
LACI	HZ	230	346	IAML		0209	7.088			30	0.6				
PLG	HZ	272	71	EP		0209	4.222	-0.48							0.9
SDA	HZ	279	344	EP		0209	5.881	0.36							0.8
SDA	HN	279	344	ES		0209	1.199	0.02							0.8
SDA	HZ	279	344	IAML		0210	8.511			6	1.5				
ITM	HZ	303	154	EP		0209	8.487	-0.10							0.8
NOCI	HZ	312	295	EP		0209	9.971	0.21							0.8
PDG	HZ	325	343	EP		0209	1.626	0.20							0.8
PDG	HZ	325	343	IAML		0210	5.748			11	0.6				
PVY	HZ	331	354	EP		0209	2.319	-0.03							0.8

PEJK HZ 335 358 EP 0209 1.723-1.00 0.8

August 25 2023 Hour: 0: 4 56.6 Lat: 41.15N Lon: 19.83E D: 32.1 Ag: TIR Local
 Magnitudes: 2.9ML TIR 3.2MW TIR Rms: 0.8 secs

13 km NE of Peqin

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
TIR	HZ	22	7	EP		0005	2.333	-0.88							1.0
TIR	HN	22	7	ES		0005	6.233	-2.32							1.0
TIR	HZ	22	7	IAML		0005	8.134			436	0.3				
AL08AHZ		23	102	EP		0005	2.580	-0.73							1.0
AL08AHN		23	102	ES		0005	7.937	-0.79							1.0
AL04AHZ		28	235	EP		0005	4.061	0.31							1.0
AL04AHN		28	235	ES		0005	0.174	0.63							1.0
AL02AHZ		47	308	EP		0005	6.494	0.39							1.0
AL02AHN		47	308	ES		0005	5.022	1.23							1.0
BPA2 HZ		50	201	EP		0005	6.187	-0.38							1.0
BPA2 HN		50	201	ES		0005	5.022	0.40							1.0
BERA HZ		51	169	EP		0005	6.027	-0.64							1.0
BERA HN		51	169	ES		0005	5.201	0.40							1.0
BERA HZ		51	169	IAML		0005	7.871			308	0.3				
AL03AHZ		52	16	EP		0005	5.913	-1.03							1.0
AL03AHN		52	16	ES		0005	5.695	0.38							1.0
AL03AHZ		52	16	IAML		0005	7.313			0.30	0.4				
LACI HZ		55	350	EP		0005	8.379	1.08							1.0
LACI HE		55	350	ES		0005	6.368	0.41							1.0
LACI HZ		55	350	IAML		0005	1.744			195	0.3				
AL05AHZ		68	136	EP		0005	9.432	0.16							1.0
AL05AHN		68	136	ES		0005	9.914	0.39							1.0
AL05AHZ		68	136	IAML		0005	2.180			0.20	0.3				
AL07AHZ		76	111	EP		0005	0.803	0.27							1.0
AL07AHN		76	111	ES		0005	2.068	0.26							1.0
PHP HZ		78	40	EP		0005	0.062	-0.75							1.0
PHP HN		78	40	ES		0005	2.607	0.29							1.0
PHP HZ		78	40	IAML		0005	6.310			154	0.9				
VLO HZ		81	201	EP		0005	2.158	1.03							1.0
VLO HN		81	201	ES		0005	3.146	0.26							1.0
VLO HZ		81	201	IAML		0005	8.326			248	0.4				
TPE HZ		96	171	EP		0005	3.630	0.12							1.0
TPE HN		96	171	ES		0005	7.428	0.23							1.0
TPE HZ		96	171	IAML		0005	3.533			254	0.8				
SDA HZ		104	345	EP		0005	4.270	-0.43							1.0
SDA HE		104	345	ES		0005	9.630	0.29							1.0
SDA HZ		104	345	IAML		0005	3.082			26	0.2				
KKS HZ		113	25	EP		0005	6.171	0.01							1.0
KKS HN		113	25	ES		0005	1.981	-0.02							1.0
AL06AHZ		118	183	EP		0005	6.771	-0.09							1.0
AL06AHE		118	183	ES		0005	3.132	-0.14							1.0
NEST HZ		131	128	EP		0005	0.220	1.55							1.0
NEST HN		131	128	ES		0005	6.234	-0.30							1.0
NEST HZ		131	128	IAML		0005	1.484			123	0.9				
SRN HZ		142	174	EP		0005	0.080	0.19							1.0
SRN HE		142	174	ES		0005	8.470	-0.27							1.0
SRN HZ		142	174	IAML		0005	3.124			75	0.3				
PDG HZ		150	342	EP		0005	0.850	-0.11							1.0
PDG HE		150	342	ES		0005	0.337	-0.35							1.0
PDG HZ		150	342	IAML		0005	1.671			104	0.6				
KEK HZ		159	181	EP		0005	2.097	-0.11							0.9
KEK HE		159	181	ES		0005	2.839	-0.10							0.9
KEK HZ		159	181	IAML		0005	0.507			111	0.5				
PVY HZ		161	4	EP		0005	2.575	0.05							0.9
PVY HE		161	4	ES		0005	3.289	-0.22							0.9
SCTE HZ		166	224	EP		0005	3.276	0.22							0.9
SCTE HN		166	224	ES		0005	3.629	-0.85							0.9
PEJK HZ		170	12	EP		0005	4.276	0.65							0.9

PEJK HZ	170	12	ES	0005	5.440-0.07										0.9
ME05AHZ	182	323	EP	0005	5.176 0.04										0.9
ME05AHE	182	323	ES	0005	8.142-0.09										0.9
IGT HZ	184	167	EP	0005	5.777 0.36										0.9
IGT HE	184	167	ES	0005	8.400-0.34										0.9
IGT HZ	184	167	IAML	0006	1.943				61	1.0					
ME01AHZ	189	1	EP	0005	7.825 1.83										0.9
KZN HZ	189	119	EP	0005	7.692 1.68										0.9
KZN HN	189	119	ES	0005	9.578-0.25										0.9
ME01AHN	189	1	ES	0005	9.877 0.08										0.9
NKME HZ	194	338	EP	0005	6.331-0.35										0.9
NKME HN	194	338	ES	0005	0.871-0.17										0.9
GMRK HZ	203	34	EP	0005	8.006 0.07										0.9
GMRK HE	203	34	ES	0005	2.591-0.72										0.9
ME02AHZ	231	345	EP	0005	2.191 0.72										0.9
ME02AHE	231	345	ES	0005	9.842 0.13										0.9
SJES BZ	235	3	EP	0005	2.925 0.92										0.9
SJES BE	235	3	ES	0006	1.430 0.76										0.9
SJES BZ	235	3	IAML	0006	2.734				218	0.8					
NOCI HZ	236	261	EP	0005	2.181 0.09										0.9
BARS BZ	248	41	EP	0005	3.797 0.28										0.9
THL HZ	255	133	EP	0005	4.578 0.08										0.9
THL HN	255	133	ES	0006	4.909-0.27										0.9
THE HZ	270	101	EP	0005	6.105-0.27										0.9
THE HZ	270	101	IAML	0006	8.202				7	0.2					
LKD2 HZ	271	165	EP	0005	6.111-0.46										0.9
MRVN HZ	306	269	EP	0005	8.833-2.16										0.8
PLG HZ	317	105	EP	0005	2.679 0.25										0.8
VLS HZ	336	169	EP	0005	2.991-1.89										0.8
NVR HZ	339	85	EP	0005	5.379 0.15										0.8
SGRT HZ	348	282	EP	0005	3.710-2.78										0.8

August 27 2023 Hour: 10:17 45.2 Lat: 41.63N Lon: 20.83E D: 10.2 Ag: TIR Local
Magnitudes: 3.1ML TIR 3.3MW TIR Rms: 0.5 secs
34 km E of Peshkopi

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
PHP HZ		33	280	EP		1017	0.892-0.49								1.0
PHP HN		33	280	ES		1017	5.655-0.77								1.0
PHP HZ		33	280	IAML		1017	6.095			2613	0.1				
KKS HZ		60	324	EP		1017	6.131 0.13								1.0
KKS HN		60	324	ES		1018	5.161 0.37								1.0
AL03AHZ		69	267	EP		1017	6.877-0.59								1.0
AL03AHE		69	267	ES	*	1018	6.981-0.46								0.0
AL07AHZ		83	189	EP		1017	9.585-0.14								1.0
AL07AHN		83	189	ES		1018	1.302-0.24								1.0
AL08AHZ		85	226	EP		1018	0.232 0.17								1.0
AL08AHN		85	226	ES		1018	2.365 0.23								1.0
TIR HZ		87	249	EP		1018	0.042-0.36								1.0
TIR HE		87	249	ES		1018	2.838 0.08								1.0
TIR HZ		87	249	IAML		1018	6.651			139	0.5				
LACI HZ		93	270	EP		1018	3.859 2.46								0.2
AL05AHZ		110	200	EP		1018	4.726 0.51								1.0
AL05AHN		110	200	ES		1018	9.088-0.57								1.0
GMRK HZ		118	16	EP		1018	6.228 0.56								1.0
GMRK HN		118	16	ES		1018	1.874-0.40								1.0
SDA HZ		120	293	EP		1018	5.896-0.00								1.0
SDA HN		120	293	ES		1018	2.234-0.47								1.0
SDA HZ		120	293	IAML		1018	7.039			40	0.3				
PEJK HZ		121	338	EP		1018	6.608 0.49								1.0
PEJK HN		121	338	ES		1018	2.797-0.31								1.0
AL02AHZ		123	259	EP		1018	7.177 0.85								1.0
AL02AHE		123	259	ES		1018	3.711 0.23								1.0
BERA HZ		127	216	EP		1018	8.050 0.92								1.0
BERA HE		127	216	ES		1018	5.393 0.45								1.0

BERA	HZ	127	216	IAML	1018	8.946		78	0.4	
PVY	HZ	129	326	EP	1018	7.719	0.26			1.0
PVY	HN	129	326	ES	1018	4.859	-0.67			1.0
NEST	HZ	137	172	EP	1018	8.430	-0.33			1.0
NEST	HE	137	172	ES	1018	7.155	-0.72			1.0
NEST	HZ	137	172	IAML	1018	0.180		135	0.6	
BARS	BZ	154	31	EP	1018	2.387	0.74			1.0
BARS	BN	154	31	ES	1018	2.911	-0.19			1.0
ME01AHZ		156	330	EP	1018	2.457	0.53			1.0
ME01AHN		156	330	ES	1018	3.149	-0.46			1.0
PDG	HZ	157	305	IP	1018	2.094	-0.03			1.0
PDG	HN	157	305	ES	1018	3.999	0.02			1.0
PDG	HZ	157	305	IAML	1018	8.893		100	0.6	
TPE	HZ	164	205	EP	1018	3.847	0.60			0.9
TPE	HZ	164	205	IAML	1018	2.854		93	0.8	
BOSS	SZ	165	54	EP	1018	3.456	-0.06			0.9
KZN	HZ	167	152	EP	1018	3.889	0.05			0.9
KZN	HN	167	152	ES	1018	7.148	0.07			0.9
AL06AHZ		194	208	EP	1018	7.567	0.18			0.9
AL06AHN		194	208	ES	1018	3.032	-0.47			0.9
NKME	HZ	200	310	EP	1018	8.488	0.31			0.9
NKME	HN	200	310	ES	1018	4.980	0.05			0.9
SRN	HZ	207	200	EP	1018	9.481	0.45			0.9
SRN	HZ	207	200	ES	1018	6.482	-0.00			0.9
SRN	HZ	207	200	IAML	1018	3.395		27	0.6	
THE	HZ	211	121	EP	1018	9.175	-0.33			0.9
THE	HZ	211	121	IAML	1018	2.112		122	0.4	
ME05AHZ		213	296	EP	1018	0.190	0.38			0.9
ME05AHN		213	296	ES	1018	7.549	-0.33			0.9
ME02AHZ		220	321	EP	1018	0.561	-0.31			0.9
ME02AHN		220	321	ES	1018	0.270	0.47			0.9
KEK	HZ	231	203	EP	1018	1.765	-0.31			0.9
KEK	HZ	231	203	IAML	1019	0.650		50	0.7	
IGT	HZ	237	190	EP	1018	3.650	0.72			0.9
IGT	HZ	237	190	IAML	1018	9.478		30	0.7	
THL	HZ	251	156	EP	1018	4.062	-0.56			0.9
PLG	HZ	261	122	EP	1018	5.032	-0.92			0.9
LKD2	HZ	316	183	EP	1018	3.174	0.08			0.8
MRVN	HZ	393	262	EP	1018	1.319	-1.65			0.2

August 29 2023 Hour: 2:56 39.4 Lat: 41.51N Lon: 20.03E D: 27.8 Ag: TIR Local
Magnitudes: 2.5ML TIR 2.8MW TIR Rms: 0.8 secs
4 km W of Klos

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
AL03AHZ		10	347	EP		0256	3.781	-0.68							1.0
AL03AHN		10	347	ES		0256	7.872	-0.70							1.0
AL03AHZ		10	347	IAML		0256	8.435			1	0.3				
TIR	HZ	23	217	EP		0256	4.285	-1.26							1.0
TIR	HN	23	217	ES		0256	9.629	-0.90							1.0
TIR	HZ	23	217	IAML		0256	1.284			115	0.6				
LACI	HZ	29	298	EP		0256	7.666	1.41							1.0
LACI	HN	29	298	ES		0256	2.388	0.56							1.0
LACI	HZ	29	298	IAML		0256	4.293			168	0.3				
PHP	HZ	39	61	EP		0256	7.816	0.23							1.0
PHP	HE	39	61	ES		0256	4.239	0.00							1.0
PHP	HZ	39	61	IAML		0256	9.451			177	0.5				
AL08AHZ		46	172	EP		0256	7.592	-0.89							1.0
AL08AHN		46	172	ES		0256	5.485	-0.37							1.0
AL02AHZ		54	258	EP		0256	9.842	0.14							1.0
AL02AHN		54	258	ES		0256	9.191	1.12							1.0
AL04AHZ		69	215	EP		0256	2.203	0.31							1.0
AL04AHE		69	215	ES		0257	2.893	0.85							1.0
KKS	HZ	69	26	EP		0256	1.957	-0.06							1.0
KKS	HN	69	26	ES		0257	2.601	0.34							1.0

AL07AHZ	87	141	EP	0256	4.158-0.67			1.0
AL07AHN	87	141	ES	0257	7.842 0.49			1.0
BERA HZ	90	184	EP	0256	5.343 0.08			1.0
BERA HN	90	184	ES	0257	8.232 0.10			1.0
BERA HZ	90	184	IAML	0257	0.696	95	0.3	
BPA2 HZ	94	202	EP	0256	6.239 0.46			1.0
BPA2 HN	94	202	ES	0257	9.257 0.20			1.0
AL05AHZ	95	161	EP	0256	5.735-0.26			1.0
AL05AHN	95	161	ES	0257	9.897 0.44			1.0
PVY HZ	120	357	EP	0256	9.739-0.30			1.0
PVY HE	120	357	ES	0257	6.982 0.20			1.0
PDG HZ	120	328	EP	0256	9.568-0.35			1.0
PDG HE	120	328	ES	0257	6.342-0.22			1.0
PDG HZ	120	328	IAML	0257	7.639	25	0.3	
VLO HZ	125	201	EP	0257	0.928 0.31			1.0
VLO HN	125	201	ES	0257	7.928 0.10			1.0
VLO HZ	125	201	IAML	0257	0.891	70	0.7	
PEJK HZ	127	9	EP	0257	0.977-0.10			1.0
PEJK HN	127	9	ES	0257	8.902 0.24			1.0
TPE HZ	135	181	EP	0257	2.408 0.13			1.0
TPE HE	135	181	ES	0257	1.097 0.27			1.0
TPE HZ	135	181	IAML	0257	0.207	38	1.2	
ME01AHZ	148	355	EP	0257	4.395 0.38			1.0
ME01AHN	148	355	ES	0257	4.136 0.17			1.0
NEST HZ	149	145	EP	0257	5.141 1.00			1.0
NEST HN	149	145	ES	0257	4.575 0.38			1.0
NEST HZ	149	145	IAML	0257	7.744	30	0.4	
AL06AHZ	160	188	EP	0257	5.757 0.35			0.9
AL06AHN	160	188	ES	0257	6.566 0.07			0.9
GMRK HZ	161	37	EP	0257	5.959 0.33			0.9
GMRK HN	161	37	ES	0257	7.104 0.22			0.9
ME05AHZ	164	310	EP	0257	5.716-0.22			0.9
ME05AHN	164	310	ES	0257	5.605-1.84			0.9
NKME HZ	165	328	EP	0257	5.903-0.26			0.9
NKME HN	165	328	ES	0257	7.913 0.06			0.9
SRN HZ	181	181	EP	0257	8.125-0.03			0.9
SRN HE	181	181	ES	0257	1.679 0.22			0.9
SRN HZ	181	181	IAML	0257	7.474	17	0.4	
SJES BZ	194	359	EP	0257	0.939 1.01			0.9
SJES BN	194	359	ES	0257	4.775 0.09			0.9
SJES BZ	194	359	IAML	0257	9.688	199	0.9	
ME02AHZ	197	338	EP	0257	1.454 1.10			0.9
ME02AHN	197	338	ES	0257	5.388-0.05			0.9
KZN HZ	199	132	EP	0257	0.740 0.28			0.9
KZN HN	199	132	ES	0257	6.061 0.42			0.9
KEK HZ	201	186	EP	0257	0.722 0.04			0.9
KEK HN	201	186	ES	0257	6.061 0.02			0.9
KEK HZ	201	186	IAML	0257	5.944	37	0.5	
SCTE HZ	207	220	EP	0257	1.584 0.08			0.9
SCTE HN	207	220	ES	0257	7.517-0.00			0.9
BARS BZ	207	45	EP	0257	1.584 0.17			0.9
BARS BN	207	45	ES	0257	7.535 0.17			0.9
IGT HZ	221	173	EP	0257	3.724 0.40			0.9
IGT HN	221	173	ES	0257	0.985 0.17			0.9
IGT HZ	221	173	IAML	0257	2.014	14	0.4	
BOSS SZ	229	61	EP	0257	4.743 0.40			0.9
BOSS SN	229	61	ES	0257	2.898 0.23			0.9
THL HZ	274	142	EP	0257	0.194 0.17			0.8
THL HN	274	142	ES	0257	2.039-0.91			0.8
LKD2 HZ	307	170	EP	0257	1.691-2.64			0.8
PLG HZ	314	113	EP	0257	5.542 0.32			0.8
NVR HZ	321	92	EP	0257	6.469 0.35			0.8
NVR HE	321	92	ES	0258	1.519-2.46			0.8
MRVN HZ	325	262	EP	0257	3.188-3.46			0.8

August 30 2023 Hour: 6:55 14.8 Lat: 39.30N Lon: 20.47E D: 1.6 Ag: TIR Local
 Magnitudes: 2.8ML TIR Rms: 0.7 secs
 46 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	28	335	EP		0655	9.564	-0.27							1.0
IGT	HN	28	335	ES		0655	3.996	0.10							1.0
IGT	HZ	28	335	IAML		0655	5.941			986	0.3				
JAN	HZ	51	40	EP		0655	3.333	-0.62							1.0
JAN	HN	51	40	ES		0655	1.392	0.05							1.0
LKD2	HZ	59	164	EP		0655	5.556	0.11							1.0
LKD2	HN	59	164	ES		0655	4.505	0.46							1.0
KEK	HZ	74	308	EP		0655	7.215	-0.73							1.0
KEK	HN	74	308	ES		0655	8.519	-0.06							1.0
KEK	HZ	74	308	IAML		0655	3.303			200	0.4				
SRN	HZ	76	328	EP		0655	7.963	-0.37							1.0
SRN	HN	76	328	ES		0655	9.558	0.29							1.0
SRN	HZ	76	328	IAML		0655	4.513			91	0.7				
AL06AHZ		106	325	EP		0655	4.442	0.61							1.0
AL06AHN		106	325	ES		0655	9.479	0.26							1.0
TPE	HZ	117	341	EP		0655	5.585	-0.01							1.0
TPE	HN	117	341	ES		0655	3.094	0.67							1.0
TPE	HZ	117	341	IAML		0655	7.326			102	0.4				
VLS	HZ	125	175	EP		0655	7.286	0.21							1.0
VLS	HN	125	175	ES		0655	5.125	0.03							1.0
NEST	HZ	133	22	EP		0655	8.549	0.20							1.0
NEST	HN	133	22	ES		0655	7.735	0.32							1.0
NEST	HZ	133	22	IAML		0656	2.464			113	0.5				
THL	HZ	136	77	EP		0655	8.724	-0.09							1.0
THL	HN	136	77	ES		0655	8.520	0.27							1.0
AL05AHZ		156	358	EP		0655	1.770	-0.36							1.0
AL05AHE		156	358	ES		0656	4.554	0.31							1.0
KZN	HZ	158	45	EP		0655	3.151	0.71							0.9
KZN	HN	158	45	ES		0656	4.648	-0.16							0.9
BERA	HZ	162	344	EP		0655	3.150	0.09							0.9
BERA	HN	162	344	ES		0656	6.220	0.28							0.9
BERA	HZ	162	344	IAML		0656	9.954			27	0.7				
SCTE	HZ	192	297	EP		0655	7.605	-0.23							0.9
SCTE	HE	192	297	ES		0656	5.000	0.43							0.9
PHP	HZ	264	359	EP		0655	4.068	-3.14							0.9
PHP	HZ	264	359	IAML		0656	0.448			29	1.2				

August 30 2023 Hour: 6:55 15.0 Lat: 39.31N Lon: 20.44E D: 2.7 Ag: TIR Local
 Magnitudes: 2.9ML TIR 3.4MW TIR Rms: 0.4 secs
 44 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	27	340	EP		0655	9.413	-0.34							1.0
IGT	HN	27	340	ES		0655	4.051	0.42							1.0
IGT	HZ	27	340	IAML		0655	5.936			924	0.2				
LKD2	HZ	61	162	EP		0655	5.459	-0.34							1.0
LKD2	HN	61	162	ES		0655	4.915	0.35							1.0
KEK	HZ	71	310	EP		0655	6.995	-0.67							1.0
KEK	HN	71	310	ES		0655	7.895	-0.06							1.0
KEK	HZ	71	310	IAML		0655	3.320			191	0.4				
SRN	HZ	74	330	EP		0655	7.666	-0.50							1.0
SRN	HN	74	330	ES		0655	9.572	0.71							1.0
SRN	HZ	74	330	IAML		0655	4.303			87	0.3				
AL06AHZ		105	326	EP		0655	4.268	0.63							1.0
AL06AHN		105	326	ES		0655	9.361	0.60							1.0
TPE	HZ	115	342	EP		0655	4.894	-0.57							1.0
TPE	HN	115	342	ES		0655	2.364	0.30							1.0
TPE	HZ	115	342	IAML		0655	8.980			114	1.0				
VLS	HZ	126	174	EP		0655	7.287	0.05							1.0
VLS	HN	126	174	ES		0655	5.415	0.14							1.0

NEST HZ	134	23	EP	0655	7.856-0.69										1.0
NEST HN	134	23	ES	0655	7.462-0.19										1.0
NEST HZ	134	23	IAML	0656	2.461			114	0.8						
THL HZ	139	78	EP	0655	9.732 0.40										1.0
THL HN	139	78	ES	0655	9.420 0.34										1.0
AL05AHZ	155	359	EP	0655	1.758-0.37										1.0
AL05AHN	155	359	ES	0656	4.705 0.58										1.0
BERA HZ	161	345	EP	0655	2.718-0.24										0.9
BERA HN	161	345	ES	0656	5.214-0.42										0.9
BERA HZ	161	345	IAML	0656	9.368			28	0.3						
PHP HZ	264	0	EP	0655	7.179 0.02										0.9
PHP HN	264	0	ES	0656	0.709-0.63										0.9
PHP HZ	264	0	IAML	0656	0.753			26	1.3						
LACI HZ	266	347	EP	0655	7.881 0.57										0.9
LACI HN	266	347	ES	0656	1.433-0.18										0.9
LACI HZ	266	347	IAML	0656	0.971			24	1.4						

August 30 2023 Hour: 7:38 44.1 Lat: 39.79N Lon: 20.75E D: 13.3 Ag: TIR Local
Magnitudes: 2.8ML TIR 3.1MW TIR Rms: 0.6 secs

49 km SE of Libohove

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT HZ	46	232	EP			0738	2.614	0.04							1.0
IGT HN	46	232	ES			0738	9.234-0.18								1.0
IGT HZ	46	232	IAML			0739	1.977			376	0.2				
SRN HZ	65	279	EP			0738	5.529-0.23								1.0
SRN HN	65	279	ES			0739	4.823-0.34								1.0
SRN HZ	65	279	IAML			0739	5.904			236	0.3				
SRN HZ	65	279	IAML	A		0739	6.098			367	1.1				
NEST HZ	74	20	EP			0738	6.768-0.46								1.0
NEST HN	74	20	ES			0739	7.354-0.47								1.0
NEST HZ	74	20	IAML			0739	2.295			122	0.1				
KEK HZ	82	264	EP			0738	7.704-0.90								1.0
KEK HN	82	264	ES			0739	0.054-0.27								1.0
KEK HZ	82	264	IAML			0739	5.374			227	0.5				
TPE HZ	85	312	EP			0738	8.871-0.07								1.0
TPE HN	85	312	ES			0739	1.010 0.07								1.0
AL06AHZ	92	292	EP			0738	9.894-0.22								1.0
AL06AHN	92	292	ES			0739	3.331 0.28								1.0
KZN HZ	104	56	EP			0739	1.858-0.38								1.0
KZN HN	104	56	ES			0739	6.608-0.29								1.0
AL05AHZ	106	343	EP			0739	2.318-0.29								1.0
AL05AHN	106	343	ES			0739	7.914 0.35								1.0
THL HZ	111	103	EP			0739	3.557 0.22								1.0
THL HN	111	103	ES			0739	9.305 0.42								1.0
LKD2 HZ	111	184	EP			0739	4.097 0.65								1.0
LKD2 HN	111	184	ES			0739	9.908 0.83								1.0
BERA HZ	122	326	EP			0739	4.792-0.47								1.0
BERA HE	122	326	ES			0739	2.551 0.18								1.0
BERA HZ	122	326	IAML			0739	5.578			79	0.5				
VLO HZ	131	305	EP			0739	6.932 0.21								1.0
VLO HN	131	305	ES			0739	5.635 0.62								1.0
VLO HZ	131	305	IAML			0739	6.013			135	0.4				
VLS HZ	180	185	EP			0739	4.133-0.05								0.9
VLS HN	180	185	ES			0739	7.096-1.43								0.9
TIR HZ	189	337	EP			0739	4.598-0.75								0.9
TIR HZ	189	337	IAML			0740	0.243			19	2.0				
SCTE HZ	198	280	EP			0739	7.554 1.02								0.9
AL03AHZ	211	343	EP			0739	9.461 1.23								0.9
PHP HZ	212	353	EP			0739	9.405 1.00								0.9
PHP HZ	212	353	IAML			0740	7.972			18	1.7				

August 30 2023 Hour: 18:12 28.0 Lat: 38.74N Lon: 21.07E D: 12.5 Ag: TIR Local
 Magnitudes: 2.7ML TIR Rms: 0.3 secs
 127 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
VLS	HZ	75	214	EP		1812	0.989	-0.25							1.0
VLS	HE	75	214	ES		1812	2.003	0.04							1.0
THL	HZ	123	41	EP		1812	9.526	0.32							1.0
THL	HN	123	41	ES		1813	6.156	-0.21							1.0
KEK	HZ	154	315	EP		1812	4.605	0.15							1.0
KEK	HN	154	315	ES		1813	5.850	-0.02							1.0
KEK	HZ	154	315	IAML		1813	2.313			80	0.7				
SRN	HZ	157	324	EP		1812	4.764	-0.11							1.0
SRN	HN	157	324	ES		1813	6.483	-0.15							1.0
SRN	HZ	157	324	IAML		1813	6.231			26	0.7				
KZN	HZ	184	19	EP		1812	9.285	0.46							0.9
KZN	HE	184	19	ES		1813	3.494	-0.30							0.9
AL06AHZ		188	323	EP		1812	9.765	0.57							0.9
TPE	HZ	195	333	EP		1813	0.081	-0.07							0.9
TPE	HZ	195	333	IAML		1813	1.888			33	0.7				
AL05AHZ		226	345	EP		1813	3.955	-0.19							0.9
BERA	HZ	239	337	EP		1813	6.297	0.63							0.9
SCTE	HZ	269	304	EP		1813	8.916	-0.64							0.9
PLG	HZ	273	48	EP		1813	9.857	-0.31							0.8

August 31 2023 Hour: 13: 2 55.2 Lat: 39.43N Lon: 19.96E D: 1.8 Ag: TIR Local
 Magnitudes: 2.9ML TIR 3.3MW TIR Rms: 0.8 secs
 31 km SW of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
IGT	HZ	34	70	EP		1303	0.153	-1.09							1.0
IGT	HE	34	70	ES		1303	6.345	0.17							1.0
IGT	HZ	34	70	IAML		1303	8.828			356	0.2				
KEK	HZ	34	336	EP		1303	0.873	-0.44							1.0
KEK	HE	34	336	ES		1303	6.985	0.69							1.0
KEK	HZ	34	336	IAML		1303	8.982			674	0.2				
SRN	HZ	50	4	EP		1303	3.234	-0.88							1.0
SRN	HE	50	4	ES		1303	1.160	-0.22							1.0
SRN	HZ	50	4	IAML		1303	5.443			409	0.3				
AL06AHZ		75	347	EP		1303	7.724	-0.87							1.0
AL06AHN		75	347	ES		1303	0.181	0.70							1.0
JAN	HN	81	71	ES		1303	1.460	0.24							1.0
LKD2	HZ	93	139	EP		1303	2.356	0.54							1.0
LKD2	HN	93	139	ES		1303	6.443	1.14							1.0
TPE	HZ	96	3	EP		1303	1.444	-0.89							1.0
TPE	HE	96	3	ES		1303	6.645	0.39							1.0
TPE	HZ	96	3	IAML		1303	0.057			101	0.2				
VLO	HZ	122	341	EP		1303	8.686	1.89							1.0
VLO	HE	122	341	ES		1303	4.025	-0.30							1.0
VLO	HZ	122	341	IAML		1303	2.453			121	0.4				
BERA	HZ	141	360	EP		1303	0.009	-0.01							1.0
BERA	HE	141	360	ES		1303	1.045	0.88							1.0
NEST	HZ	144	40	EP		1303	9.773	-0.68							1.0
NEST	HE	144	40	ES		1303	2.225	1.28							1.0
AL05AHZ		146	14	EP		1303	0.650	-0.23							1.0
AL05AHE		146	14	ES		1303	1.614	-0.10							1.0
VLS	HZ	149	158	EP		1303	1.083	-0.29							1.0
THL	HZ	177	84	EP		1303	6.559	0.55							0.9
THL	HE	177	84	ES		1303	0.055	-0.95							0.9
KZN	HZ	183	57	EP		1303	6.537	-0.47							0.9
LACI	HZ	246	355	EP		1303	3.692	-1.38							0.9

August 31 2023 Hour: 23:33 29.5 Lat: 38.74N Lon: 21.22E D: 8.6 Ag: TIR Local
Magnitudes: 2.9ML TIR 3.3MW TIR Rms: 0.7 secs
135 km SE of Konispol

STAT	CO	DIST	AZI	PHASE	P	HRMN	SECON	TRES	CODA	AMPL	PERI	BAZ	ARES	VELO	WT
LKD2	HZ	49	276	EP		2333	7.815	-0.52							1.0
LKD2	HE	49	276	ES		2333	6.308	0.78							1.0
VLS	HZ	84	221	EP		2333	3.650	-0.61							1.0
VLS	HN	84	221	ES		2333	6.707	0.44							1.0
THL	HZ	114	37	EP		2333	9.636	0.30							1.0
THL	HN	114	37	ES		2334	5.347	-0.09							1.0
IGT	HZ	116	319	EP		2333	8.850	-0.84							1.0
IGT	HN	116	319	ES		2334	6.927	0.84							1.0
IGT	HZ	116	319	IAML		2334	5.016			82	0.6				
KEK	HZ	163	312	EP		2333	7.532	0.04							0.9
KEK	HE	163	312	ES		2334	9.035	-1.17							0.9
KEK	HZ	163	312	IAML		2334	1.868			110	0.5				
SRN	HZ	164	321	EP		2333	7.848	0.20							0.9
SRN	HN	164	321	ES		2334	9.872	-0.61							0.9
SRN	HZ	164	321	IAML		2334	9.274			43	1.3				
KZN	HZ	180	15	EP		2334	0.276	0.13							0.9
KZN	HN	180	15	ES		2334	4.589	-0.42							0.9
NEST	HZ	186	356	EP		2334	1.313	0.36							0.9
NEST	HE	186	356	ES		2334	7.014	0.55							0.9
NEST	HZ	186	356	IAML		2334	5.829			58	1.1				
AL06AHZ		195	320	EP		2334	1.656	-0.36							0.9
AL06AHN		195	320	ES		2334	8.489	0.10							0.9
TPE	HZ	201	329	EP		2334	2.976	0.23							0.9
TPE	HN	201	329	ES		2334	0.158	0.44							0.9
TPE	HZ	201	329	IAML		2334	5.786			100	1.2				
AL05AHZ		229	342	EP		2334	7.745	1.35							0.9
AL05AHN		229	342	ES		2334	6.198	-0.12							0.9
VLO	HZ	242	323	EP		2334	9.017	1.02							0.9
VLO	HZ	242	323	IAML		2334	9.842			41	0.6				
BERA	HZ	243	334	EP		2334	8.116	-0.04							0.9
BERA	HE	243	334	ES		2334	9.298	-0.20							0.9
BERA	HZ	243	334	IAML		2335	0.152			29	1.6				
THE	HZ	258	35	EP		2334	9.937	-0.08							0.9
THE	HZ	258	35	IAML		2334	1.417			13	0.8				
PLG	HZ	263	46	EP		2334	0.441	-0.36							0.9
SCTE	HZ	279	303	EP		2334	1.484	-1.28							0.8
PHP	HZ	333	349	EP		2334	9.623	-0.14							0.8
PHP	HN	333	349	ES		2335	0.514	-0.01							0.8
PHP	HZ	333	349	IAML		2335	2.103			13	0.8				
AL03AHZ		334	342	EP		2334	9.793	-0.01							0.8
LACI	HZ	346	339	EP		2334	3.446	2.15							0.8
LACI	HE	346	339	ES		2335	3.223	-0.06							0.8
LACI	HZ	346	339	IAML		2335	0.603			10	1.1				
NVR	HZ	367	37	EP		2334	4.135	0.04							0.8
NVR	HE	367	37	ES		2335	7.958	-0.40							0.8
SDA	HZ	395	339	EP		2334	6.772	-0.84							0.7
NOCI	HZ	422	304	EP		2334	9.939	-1.20							0.7
BOSS	SZ	430	14	EP		2334	2.200	0.01							0.7
PVY	HZ	441	346	EP		2334	3.601	-0.02							0.7